Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and abutting Cross Roads in Ward No.8, Kodigehalli

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			**Proposed Use**	PCC
				Date of Sampling	16/07/18
Sample Location	At Site			**Date of Testing**	16/07/18
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size**
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	92	92	3.07	96.93	95-100
20.00mm	1200	1292	43.07	56.93	30-70
10.00mm	900	2192	73.07	26.93	10-35
4.75mm	700	2892	96.40	3.60	0-5
Pan	108	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT

TEJUS CONSULTANTS

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION ON FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Concrete
Location/Source	At Plant/site	Date of Sampling	16/07/18
Period of Soaking	24 hours	Date of Testing	16/07/18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of surated surface dry sample gm.	690	685	684	
B	Weight of oven - dry sample gm.	682	677	676	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1698	1708	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.554	2.584	2.693	**2.611**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.173	1.182	1.183	**1.179**

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
SIEVE ANALYSIS					
Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	Concrete	
Sample Location	At Plant/site		**Date of Sampling**	16/07/18	
			Date of Testing	16/07/18	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	100
4.75 mm	225	225	7.50	92.50	90 - 100
2.36 mm	285	510	17.00	83.00	75 - 100
1.18 mm	510	1020	34.00	66.00	55 - 90
0.600 mm	485	1505	50.17	49.83	35 -59
0.300 mm	720	2225	74.17	25.83	8-30
0.150 mm	580	2805	93.50	6.50	0 - 10
Pan	195	3000			-
Remarks :			Satisfactory / Not Satisfactory		

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT ON CEMENT

Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Sample ID	Cement
Date of Sample Tested	16/07/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	35 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s Karthik Enterprises	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	At Plant	**Date of Sampling**	24/07/18
		Date of Testing	24/07/18

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	**100**
20.00 mm	270	270	2.70	97.30	**95 - 100**
10.00 mm	4980	5250	52.50	47.50	**25 - 55**
4.75 mm	4150	9400	94.00	6.00	**0 - 10**
Pan	600	10000			

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s Karthik Enterprises	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	Plant		Date of Sampling	24/07/18	
			Date of Testing	24/07/18	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20	0	0	0	100	100
12.5	580	580	5.8	94.2	90-100
10	3874	4454	44.54	55.46	40-85
4.75	4900	9354	93.54	6.46	0-10
Pan	646	10000			
Remarks :			✓ Satisfactory / Not Satisfactory		

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION ON FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Concrete
Location/Source	At Plant/site	Date of Sampling	24/07/18
Period of Soaking	24 hours	Date of Testing	24/07/18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	662	672	672	
B	Weight of oven - dry sample gm.	654	664	664	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1691	1690	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.659	2.584	2.584	**2.609**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.223	1.205	1.205	**1.211**

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Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SIEVE ANALYSIS

Total Weight:	**3000**	gms			
Type of Material	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	Concrete	
Sample Location	At Plant/site		**Date of Sampling**	24/07/18	
			Date of Testing	24/07/18	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	225	225	7.50	92.50	**90 - 100**
2.36 mm	268	493	16.43	83.57	**75 - 100**
1.18 mm	502	995	33.17	66.83	**55 - 90**
0.600 mm	535	1530	51.00	49.00	**35 -59**
0.300 mm	640	2170	72.33	27.67	**8-30**
0.150 mm	580	2750	91.67	8.33	**0 - 10**
Pan	250	3000			**-**

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT ON CEMENT

Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Sample ID	Cement
Date of Sample Tested	24/07/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

Assistant Executive Engineer,
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Bangalore.

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Test report on Compressive strength of concrete cubes

Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	24/07/18	31/07/18	7 days	8.822	22500	298	13.24	13.24
2	24/07/18	31/07/18	7 days	8.865	22500	300	13.33	
3	24/07/18	31/07/18	7 days	8.722	22500	296	13.16	

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Assistant Executive Engineer,
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Bangalore.

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Test report on Compressive strength of concrete cubes

Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	24/07/18	21/08/18	28 days	8.582	22500	450	20.00	20.04
2	24/07/18	21/08/18	28 days	8.762	22500	452	20.09	
3	24/07/18	21/08/18	28 days	8.560	22500	451	20.04	

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	25/07/18	
			Date of Testing	25/07/18	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	272	272	2.72	97.28	**95 - 100**
10.00 mm	4658	4930	49.30	50.70	**25 - 55**
4.75 mm	4532	9462	94.62	5.38	**0 - 10**
Pan	538	10000			

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s Karthik Enterprises	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	Plant		Date of Sampling	25/07/18	
			Date of Testing	25/07/18	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	585	585	5.85	94.15	90-100
10.0	3358	3943	39.43	60.57	40-85
4.75	5498	9441	94.41	5.59	0-10
Pan	559	10000			
Remarks :			Satisfactory / Not Satisfactory		

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEST REPORT

TEJUS CONSULTANTS

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	**Proposed Use**	Concrete
Location/Source	At Plant/site	**Date of Sampling**	25/07/18
Period of Soaking	24 hours	**Date of Testing**	25/07/18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	642	651	662	
B	Weight of oven - dry sample gm.	635	641	652	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1673	1688	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.602	2.693	2.640	**2.645**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.102	1.560	1.534	**1.399**

TEJUS CONSULTANTS

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SIEVE ANALYSIS

Total Weight:	3000	gms			
Type of Material	Fine aggregate (River Sand/M sand)		**Proposed Use**	Concrete	
Sample Location	At Plant/site		**Date of Sampling**	25/07/18	
			Date of Testing	25/07/18	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	265	265	8.83	91.17	**90 - 100**
2.36 mm	285	550	18.33	81.67	**75 - 100**
1.18 mm	420	970	32.33	67.67	**55 - 90**
0.600 mm	570	1540	51.33	48.67	**35 -59**
0.300 mm	750	2290	76.33	23.67	**8-30**
0.150 mm	530	2820	94.00	6.00	**0 - 10**
Pan	180	3000			**-**
Remarks :			✓ Satisfactory / Not Satisfactory		

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bengaluru.

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CONSULTANTS

TEST REPORT ON CEMENT	
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Sample ID	Cement
Date of Sample Tested	25/07/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	45 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	371 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Test report on Compressive strength of concrete cubes

Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25/07/18	01/08/18	7 days	8.822	22500	295	13.11	13.17
2	25/07/18	01/08/18	7 days	8.865	22500	302	13.42	
3	25/07/18	01/08/18	7 days	8.722	22500	292	12.98	

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Test report on Compressive strength of concrete cubes

Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25/07/18	22/08/18	28 days	8.582	22500	455	20.22	20.24
2	25/07/18	22/08/18	28 days	8.762	22500	453	20.13	
3	25/07/18	22/08/18	28 days	8.560	22500	458	20.36	

TEJUS CONSULTANTS

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Karthik Enterprises
Name of Work	:	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
No.of Sample Tested	:	3
Date of Testing	:	02/08/18
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} - 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.456	2580.43	1.80	0.960	38.21	19.46	21.02	20.18	25.22
2	50.00	90.00	0.458	2591.75	1.80	0.960	38.42	19.57	21.13	20.29	25.36
3	50.00	90.00	0.425	2405.01	1.80	0.960	38.58	19.65	21.22	20.37	25.46

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

11.8.18